

REMARKS

Claims 1 and 34 have been amended to set forth that the plate antenna that is claimed includes a discoidal electrode to which ultra high frequency is applied, an earth electrode and a dielectric plate provided between the discoidal electrode and the earth electrode. As amended, claims 1 and 34, which are the independent claims, overcome the 35 U.S.C. § 103(a) rejection over Yokogawa et al, EP779,644 (Yokogawa).

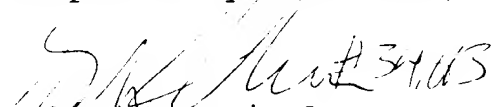
In particular, Yokogawa is relied upon for showing a electromagnetic wave radiation antenna 107 coupled to a power supply and installed in an atmosphere. The Examiner states that the antenna 107 is a plate antenna, by referring to Fig. 1 of the reference. Further, the Examiner relies upon Fig. 12 showing an embodiment in which the electromagnetic wave radiator is installed in a place which is not vacuum. However, Yokogawa fails to disclose the antenna as claimed, which includes the discoidal electrode to which ultra high frequency is applied, an earth electrode and a dielectric plate provided between the discoidal electrode and the earth electrode. Accordingly, the claims are not patentable over Yokogawa under 35 U.S.C. § 103 and the rejection should be withdrawn.

Applicants have amended claim 9 to change its dependency. As amended, claim 9 depends from new claim 37. Claims 37 and

38 have been added to include the conical-shaped feed division that is placed on the discoidal electrode. The conical-shaped feed division 11 is shown in Fig. 1, for example, and is not disclosed in Yokogawa or the remainder of the art of record. Although the Examiner relies upon Nakano for disclosing a conical shaped electrode, the electrode disclosed by Nakano is used in an apparatus placed in a vacuum, unlike the claimed feed division of claims 37 and 38. Accordingly, claims 9, 37 and 38 are patentable over the art of record and in particular over Yokogawa in view of Nakano et al, U.S. Patent No. 6,155,202. Therefore, the 35 U.S.C. § 103(a) rejection should be withdrawn.

In view of the foregoing amendments and remarks, reconsideration and reexamination are respectfully requested.

Respectfully submitted,


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Date: August 25, 2003